

Release A CDR RID Report

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Review SDPS/CSMS

Originator Ref

Priority 1

Section

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Figure Table

Category Name Planning (PLS) Design

Actionee ECS

Sub Category Planning

Subject Planning Workbench Design

Description of Problem or Suggestion:

By decision, the current Planning Subsystem design leaves one application component with its underlying class library unresolved. This component is the Planning Workbench. Its associated class library, which has the sole purpose within the Planning CSCI of providing a base for the custom development required to implement the Planning Workbench, is the Delphi class library. While the detailed design of the Planning Subsystem (which includes the Planning Workbench component) is documented in DID 305, Volume 10, its implementation is not scheduled to begin until December 1, 1995.

Since the recent acquisition by ECS of Platinum AutoSys/AutoXpert, a COTS product that is impressive in its capabilities to support planning/scheduling activities, knowledge that the product far exceeds the capabilities targeted by the procurement has come to light, and has resulted in discussion of extending its applicability beyond that of scheduling engine within the Data Processing Subsystem. Technical information that came to light as of July 31, 1995 indicates positive prospects for integrating AutoXpert with its simulation engine into the Planning Subsystem to support developing candidate plans. It is recommended that currently planned prototyping of the PDPS interface with AutoXpert be used to analyze its applicability to the design of the Planning Workbench component, and to ensure that any risks of this alternative implementation are well-understood. It is further recommended that the design of this single PDPS component remains open until this analysis is completed.

The proposed schedule for completing the design of the Planning Workbench CSC is September 22, 1995

Originator's Recommendation

Through the already-scheduled prototyping of the PDPS interface with AutoSys/AutoXpert, and any other design activities as required (e.g., technical discussions), determine the advantages and disadvantages of implementing the Planning Workbench CSC based on AutoSys/AutoXpert integration. Evaluate capabilities, interfaces, SLOC savings, operability, scalability, evolvability. Identify other ECS subsystem and Release B impacts, if any. Identify any other known risks. Provide a briefing to ESDIS at the point of a design decision by approximately September 8, 1995. Complete the design of the Planning Workbench component and present a Detailed Design Inspection for this component no later than September 22, 1995. ESDIS, DAAC, Instrument Team and CDR Review Board participation is requested at the inspection.

GSFC Response by:

GSFC Response Date

HAIS Response by: Jacob Eisenstein

HAIS Schedule 9/6/95

HAIS R. E. K. Loya

HAIS Response Date 9/15/95

We concur with the originator's recommendation and will proceed according to this plan. An informal briefing on the design decision will be provided to ESDIS early in September. A Detailed Design Review for the Planning Workbench will be held on approximately September 26, 1995, according to availability and schedule of NASA and NASA-invited participants.

Status Closed

Date Closed 9/28/95

Sponsor Kempler

***** Attachment if any *****

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